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Spectroscopic Investigation of Tobacco Smoke Constituents on Mammals.

This experimental plan, in essence, will consist of isolating mammalian cells and cell membranes, exposing them in vitro to cigarette smoke components, labeling them with nitroxide spin labels, dialyzing to remove any unbound labeling compound, and obtaining electron spin resonance measurements of the labeled cells and membranes.

The hemoglobin obtained upon hemolysis of the red blood cells (control and exposed) will be examined by magnetic circular dichroism (MCD), optical, and ESR spectroscopy in order to detect differences in the heme moiety.

Activation Date: October 1, 1970

Current Contract Level: $51,610.

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Source: https://www.industrydocuments.ucsf.edu/docs/qhnk0000